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Transis val			ATTORNEY DOCKET NO.	CONFIRMATION NO.		
APPLICATION NO.	FILING DATE 07/23/2001	FIRST NAMED INVENTOR Caroline M. Ylitalo	56473US002	4080		
Attention: Br	adford B. Wright ectual Property Counsel Properties Company		EXAM BERMAN, ART UNIT 1711 DATE MAILED: 10/04/200	SUSAN W PAPER NUMBER		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.		Applicant(s)	
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		09/911,279	Į.	Art Unit	T
	Office Action Summary	Examiner	l		
		Susan W Berman	104 11748 48 -	1711 orrespondence a	ddress
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THE MA - Extension after SIX - If the per - If NO pe - Failure to	Reply RTENED STATUTORY PERIOD FOR REPLAILING DATE OF THIS COMMUNICATION. Ons of time may be available under the provisions of 37 CFR 1 X (6) MONTHS from the mailing date of this communication. In the mailing date of this communication. Yeriod for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statut only received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	n 136(a). In no event, nowever, oppositely within the statutory minimum the will expire SIX (m of thirty (30) days	ys will be considered time the mailing date of this	nely. s communication.
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	on of Claims Claim(s) 1-33 is/are pending in the applicati	ion.			
4)⊠	Claim(s) <u>1-33</u> is/are perfuling in the apparent that apparent the apparent the apparent that apparent the apparent the apparent the apparent the apparent that apparent the appar	Irawn from considerat	tion.		
1 <u>-</u>	Claim(a) is/are allowed				
5)	Claim(s) is/are allowed. Claim(s) <u>1,12-19,21-29 and 33</u> is/are rejected.	ed.			
l	20-32 is/are objected	ιο.			
7)⊠	Claim(s) 2-11,20 and 30-32 is/are objected Claim(s) are subject to restriction an	d/or election requiren	nent.		
8)	Claim(s) are subject to restriction are				
	tion Papers The specification is objected to by the Exam	niner.		minor	
9)	The specification is objected to by the Example The drawing(s) filed on is/are: a) and a specifical to the specifical to be specified to be the Example Specified to	accepted or b) ☐ objecte	ed to by the E	-xammer.	\5(a).
10)	The drawing(s) filed on is/are: a) a Applicant may not request that any objection to	to the drawing(s) be hel	Id in abeyance	nroved by the F	xaminer.
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1	transplad corrected drawings are required	W. 1-E-3	ction.		
	If approved, corrected drawings and the state of the stat	e Examiner.			
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Priority	winder 35 U.S.C. §§ 119 and 120 Acknowledgment is made of a claim for fo	oreign priority under 3	35 U.S.C. § 1	19(a)-(d) or (t).	
13)[Come * c) None of				
ė	a) All b) Some * c) None of: 1. Certified copies of the priority docu	ments have been rec	eived.		
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Attachr	ment(s)	4) [<u></u>		Paper No(s)
1) 🖾 1	Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO- Information Disclosure Statement(s) (PTO-1449) Paper	-948) 5)	Notice of In Other:	nformal Patent Applic	
3) 🖾 🔻	Information Disclosure Statement(s) (1707-1707)				Part of Paper No.

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Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 33 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is not clear from the claim language "radiation curable clear coat" whether applicant intends to claim a curable composition for obtaining a clear coat or a cured clear coat obtained by radiation curing a curable composition.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 12, 13, 18, 19, 21, 23, and 26-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Held (5,852,075). Held discloses a surfactant system for ink jet inks containing an aqueous carrier and a colorant. The surfactant system comprises a siloxane surfactant and a fluorinated surfactant. See column 6, line 41, to column 7, line 47. See surfactant no. 4 in Table 1. It would have been obvious to one skilled in the art to select surfactant no. 4 from the fluorinated surfactants disclosed by Held because Held uses a fluoroalcohol substituted monoether with polyethylene glycol in the examples (see Ink preparations 2, 3 and 4). It would have been obvious to one skilled in the art to substitute a

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fluorinated surfactant containing 4 carbon atoms instead of the surfactant containing 6 carbon atoms in the perfluoralkyl group taught by Held, with the expectation of obtaining similar surfactant properties, in the absence of evidence to the contrary. With respect to claims 23 and 26-28, it would have been obvious to one skilled in the art to employ the ink compositions disclosed by Held in a method of ink jet printing comprising ejecting the ink compositions from an ink jet printhead onto a substrate because Held teaches that the disclosed compositions are suitable inks for ink jet printers.

Claims 1, 12, 13,18, 19, 21, 22, 23, and 26-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over EP 0 974 626 A1. EP '626 discloses aqueous pigmented inks for ink jet printing on vinyls. The inks comprise an aqueous vehicle, an insoluble colorant, a polymeric dispersant, and a silicon or fluorinated surfactant. See page 6. See surfactant no. 4 in Table 1 and Examples 1-4. It would have been obvious to one skilled in the art to select surfactant no. 4 from the fluorinated surfactants disclosed by EP '626 because EP '626 teaches that a fluoroalcohol substituted monoether with polyethylene glycol or telomer B monoether with polyethylene glycol are preferred. It would have been obvious to one skilled in the art to substitute a fluorinated surfactant containing 4 carbon atoms instead of the surfactant containing 6 carbon atoms in the perfluoralkyl group taught by EP '626, with the expectation of obtaining similar surfactant properties, in the absence of evidence to the contrary.

Claims 1, 14-17, 19, 21-29 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Caiger et al (6,114,406) in view of Held or EP '626. Caiger et al disclose radiation curable ink compositions comprising acrylate monomers and oligomers, a photoinitiator and a fluorosurfactant. Caiger et al teach that suitable surfactants are preferably non-ionic and use fluoro surfactants in the examples (column 3, lines 52-55). Held and EP '626 each disclose fluorinated surfactants analogous to the third formula set forth in claim 1.

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It would have been obvious to one skilled in the art to employ the fluorinated surfactants taught by Held or by EP '626 as the fluoro surfactant in the ink compositions disclosed by Caiger et al. Caiger et al teach that the surfactant is preferably a nonionic surfactant and a fluoro surfactant. Caiger et la do not limit the surfactants to those specifically used in the examples. It would have been obvious to one skilled in the art to select surfactant no. 4 from the fluorinated surfactants disclosed by EP '626 because EP '626 teaches that a fluoroalcohol substituted monoether with polyethylene glycol or telomer B monoether with polyethylene glycol are preferred. It would have been obvious to one skilled in the art to substitute a fluorinated surfactant containing 4 carbon atoms instead of the surfactant containing 6 carbon atoms in the perfluoralkyl group taught by EP '626, with the expectation of obtaining similar surfactant properties, in the absence of evidence to the contrary.

Allowable Subject Matter

Claims 2-11, 20, and 30-32 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Ahlbrecht et al (2,803,615) disclose polymers of fluorocarbon (meth)acrylate esters containing a perfluorocarbon tail containing 4 to 12 fully fluorinated carbon atoms. However, there is no suggestion to employ the disclosed polymers as surfactants in an ink compositions for ink jet printing. The polymers are employed in a latex sizing solution for fabrics.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Falk (4,089,804) discloses a method of improving fluorinated surfactants by employing a fluorinated synergist containing a perfluorinated aliphatic group.

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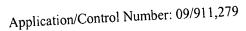
It would have been obvious to one skilled in the art to employ the fluorinated surfactants taught by Held or by EP '626 as the fluoro surfactant in the ink compositions disclosed by Caiger et al. Caiger et al teach that the surfactant is preferably a nonionic surfactant and a fluoro surfactant. Caiger et la do not limit the surfactants to those specifically used in the examples. It would have been obvious to one skilled in the art to select surfactant no. 4 from the fluorinated surfactants disclosed by EP '626 because EP '626 teaches that a fluoroalcohol substituted monoether with polyethylene glycol or telomer B monoether with polyethylene glycol are preferred. It would have been obvious to one skilled in the art to substitute a fluorinated surfactant containing 4 carbon atoms instead of the surfactant containing 6 carbon atoms in the perfluoralkyl group taught by EP '626, with the expectation of obtaining similar surfactant properties, in the absence of evidence to the contrary.

Allowable Subject Matter

Claims 2-11, 20, and 30-32 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Ahlbrecht et al (2,803,615) disclose polymers of fluorocarbon (meth)acrylate esters containing a perfluorocarbon tail containing 4 to 12 fully fluorinated carbon atoms. However, there is no suggestion to employ the disclosed polymers as surfactants in an ink compositions for ink jet printing. The polymers are employed in a latex sizing solution for fabrics.

Information Disclosure Statement

The copending applicantion cited on the Information Disclosure Statements filed 08-27-2001 and 03-21-2002 have been consdiered, however, the citations have been lined out because they are not published documents proper for printing on the face of an issued patent.



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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Falk (4,089,804) discloses a method of improving fluorinated surfactants by employing a fluorinated synergist containing a perfluorinated aliphatic group.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susan W Berman whose telephone number is 703 308 0040. The examiner can normally be reached on M-F 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on 703 308 2462.

The fax phone numbers for the organization where this application or proceeding is assigned are 703 872 9310 for regular communications and 703 872 9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308 0661.

Jusan Berman

Susan W Berman

Primary Examiner

Art Unit 1711

SB

October 1, 2002